

February 20, 2004



Scott R. Pundsack B.A.Sc. (Civil Eng.), LL.B.
416 957 1698 spundsack@bereskinparr.com

Our Reference: 4320-516

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Re: Patent Application No. 10/661,519
For: APPARATUS FOR WITHDRAWING PERMEATE USING AN IMMERSED VERTICAL SKEIN OF HOLLOW FIBRE MEMBRANES
Filing Date: September 15, 2003
Applicant: BEHMANN et al

In accordance with 37 CFR 1.56 and 1.97, the applicant hereby submits an Information Disclosure Statement including form PTO/SB/08A. Pursuant to 37 CFR 1.98(d), only copies of references listed over and above the references previously supplied by the Applicants or cited by the Office in Application Serial No. 09/849,573 are being provided. Further, in accordance with the waiver by the Office of the requirement under 37 CFR 1.98(a)(2)(i) for applications filed after June 30, 2003, this Information Disclosure Statement is filed without copies of the cited U.S. Patents.

In accordance with the requirements of 1.97(b)(1) and (3), this Information Disclosure Statement is filed within three months of the filing date of the application or before the mailing date of a first Office Action on the merits, and no fee is required. Please charge any deficiency or credit any overpayment to our deposit account No. 02-2095.

Respectfully submitted,

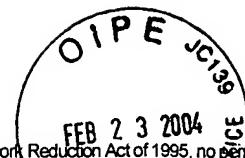
Scott R. Pundsack
Reg No. 47,330

/js

Please send all correspondence to the Mississauga office:

ENCL.

2000 Argentia Rd., Plaza 4, Ste. 430, Mississauga, Ontario, Canada L5N 1W1 Tel: 905.812.3600 Fax: 905.814.0031 Scotia Plaza, 40 King St. West, 40th Floor, Toronto, Ontario, Canada M5H 3Y2 Tel: 416.364.7311 Fax: 416.361.1398 Waterloo Technology Campus, 408 Albert St., Ste. 2, Waterloo, Ontario, Canada N2L 3V3 Tel: 519.783.3210 Fax: 519.783.3211



Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

1

of

4

Complete if Known

Application Number	10/661,519
Filing Date	September 15, 2003
First Named Inventor	BEHMANN
Group Art Unit	1723
Examiner Name	N/A

Attorney Docket Number 4320-516

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
		US- RE37,549 E	February 19, 2002	Mahendran et al	
		US- 5,480,533	Jan 2, 1996	Yamamori et al.	
		US- 5,607,593	Mar 4, 1997	Cote et al.	
		US- 5,209,852	May 11, 1993	Sunsoka et al	
		US- 5,248,424	Sep 28, 1993	Cote et al	
		US- 5,403,479	Apr 4, 1995	Smith et al.	
		US- 3,708,071	Jan 2, 1973	Crowley	
		US- 4,647,377	Mar 3, 1987	Miura	
		US- 4,756,875	Jul 12, 1988	Tajima et al.	
		US- 4,775,471	Oct 4, 1988	Nagai et al.	
		US- 4,075,100	Feb 21, 1978	Furuta et al.	
		US- 4,605,500	Aug 12, 1986	Takemura et al	
		US- 4,707,268	Nov 17, 1987	Shah et al.	
		US- 4,876,006	October 24, 1989	Ohkubo et al	
		US- 4,886,601	Dec 12, 1989	Iwatsuka et al.	
		US- 4,915,833	Apr 10, 1990	Iwatsuka et al	
		US- 5,151,191	Sep 29, 1992	Sunaoka et al	
		US- 5,192,456	Mar 9, 1993	Ishida et al.	
		US- 5,584,997	Dec 17, 1997	Yagihashi et al	
		US- 6,325,928 B1	12/4/2001	Pedersen et al	
		US- 6,319,411 B1	11/20/2001	Cote	
		US- 6,214,231	4/10/2001	Cote et al	
		US- 5,639,373	01/17/1997	Mahendran et al	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
		JP 06-343,837	Dec 20, 1994	Ebara Inflico Co Ltd.		✓ Machine
		EP 0 598 909 A1	June 1, 1994	Yamamori et al.		
		JP 62-144712	June 27, 1987	Yuichi et al.		
		English language abstract of JP62-144712				
		JP 61-192309	August 26, 1986	Toshiaki		

Examiner Signature

Date Considered

¹EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

² Applicant's unique citation designation number (optional). ³ See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ⁴ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁵ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁶ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO			Complete If Known	
			<i>Application Number</i>	10/661,519
			<i>Filing Date</i>	September 15, 2003
			<i>First Named Inventor</i>	BEHMANN
			<i>Art Unit</i>	1723
			<i>Examiner Name</i>	N/A
Sheet	2	4	<i>Attorney Docket Number</i>	4320-516

U.S. PATENT DOCUMENTS					
Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
		US- 6,193,890	2/27/2001	Pedersen et al	
		US- 6,303,035 B1	10/16/2001	Cote et al	
		US- 5,944,997	8/31/1999	Pedersen et al	
		US- 5,932,099	8/3/1999	Cote et al	
		US- 5,607,593	3/4/1997	Cote et al	
		US- 5,783,083	7/21/1998	Henshaw et al	
		US- 5,643,455	7/1/1997	Kopp et al	
		US- 5,607,593	3/4/1997	Cote et al	
		US- 6,045,698	4/4/2000	Cote et al	
		US- 5,647,988	7/15/1997	Kawanishi et al	
		US- 5,366,625	11/22/1994	Pedersen et al	
		US- 5,451,317	09/19/1995	Ishida et al.	
		US- 6,156,200	12/05/2000	Zha et al.	
		US- 6,555,005	04/29/2003	Zha et al.	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)			
		WO98/28066	07-02-1998	Memtec America Corporation	
		WO97/06880	02-27-1997	Zenon Environmental Inc.	
		JP 07-289860	07-11-1995	Toray Ind Inc.	✓ Machine
		English language abstract of JP07-289860			
		JP 07-136471	05-30-1995	Toray Ind Inc.	✓ Machine
		English language abstract of JP07-136471			
		JP 61-291007	12-20-1986	Toyobo Co. Ltd.	
		English language abstract of JP61-291007			
		JP 61-293504	12-24-1986	Kurita Water Ind Ltd.	
		English language abstract of JP61-293504			
		JP 61-167407	07-29-1986	Sumitomo Bakelite Co Ltd	
		English language abstract of JP61-167407			
		JP 61-242607	10-28-1986	Asahi Chem Ind Co Ltd	
		English language abstract of JP61-242607			

Examiner Signature	Date Considered
--------------------	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. *Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet

3

of

4

Complete if Known

Application Number	10/661,519
Filing Date	September 15, 2003
First Named Inventor	BEHMANN
Group Art Unit	1723
Examiner Name	N/A

Attorney Docket Number 4320-516

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)			
		English language abstract of JP61-192309			
		JP 63-143905	June 16, 1988	Kunio et al.	✓
		English language abstract of JP63-143905			
		JP 06-343837	Dec 20, 1994	Giichi	
		English language abstract of JP 06-343837			
		JP 04-247295	Sep 3, 1992	Osamu et al.	
		English language abstract of JP 04-247295			
		JP 04-180821	June 29, 1992	Giichi et al.	
		English language abstract of JP 04-180821			
		JP 04-197487	July 17, 1992	Noboru et al.	
		English language abstract of JP 04-197487			
		JP 02-293093	May 8, 1989	Hidenori et al.	
		English language abstract of JP 02-293093			
		JP 07-136470	Nov 12, 1993	Kenji et al.	✓
		English language abstract of JP 07-136470			
		JP 08-215548	Aug 27, 1996	Kenji et al.	✓
		English language abstract of JP 08-215548			
		JP 61-107905	May 26, 1986	Makoto	
		English language abstract of JP 61-107905			
		JP 62-004408	Jan 10, 1987	Tomohiko	
		English language abstract of JP 62-004408			
		JP S63-38884	July 5, 1986	Kikuchi	✓
		JP 07-024272	Jan 27, 1995	Masumi et al.	
		English language abstract of JP 07-024272			
		JP 03-131324	June 4, 1991	Satoshi et al.	
		English language abstract of JP 03-131324			
		JP 62-201610	Sep 9, 1987	Yukio	
		English language abstract of JP 62-201610			
		JP 07-185268	July 25, 1995	Kashi et al.	✓
		English language abstract of JP 07-185268			
		JP 05-285349	Nov 2, 1993	Tetsuro et al.	✓
		English language abstract of JP 05-285349			
		JP 62-250908	Oct 31, 1987	Yokoyama	
		English language abstract of JP 62-250908			
		SU 1692626	Nov 23, 1991	Gimranov et al.	✓
		English language abstract of SU 1692626			

Examiner Signature	Date Considered
--------------------	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO		Complete if Known			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Application Number	10/661,519		
		Filing Date	September 15, 2003		
		First Named Inventor	BEHMANN		
		Group Art Unit	1723		
		Examiner Name	N/A		
Sheet	4	of	4	Attorney Docket Number	4320-516

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS				
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T ²
		"Direct Solid-Liquid Separation Using Hollow Fiber Membrane in an Activated Sludge Aeration Tank" by K. YAMAMOTO; M. HIASA; T. MAHMOOD AND T. MATSUO; Wat. Sci. Tech. Vol. 21, Brighton, pp. 43-54 (1989).		
		"Organic Stabilization And Nitrogen Removal In Membrane Separation Bioreactor For Domestic Wastewater Treatment" by C. CHIEMCHAISRI, Y.K. WONG, T. URASE AND K. YAMAMOTO, presented at Membrane Technology in Wastewater Management, Cape Town, March 2-5, 1992		
		"Optimal fiber spacing in externally pressurized hollow fiber module for solid liquid separation", by KIAT, YAMOTO et al., Water Science Technology Vol. 26, pp 1245-1254, (1992)		
		"Household membrane bioreactor in domestic wastewater treatment", by CHIEMCHAISRI et al. Water Science Technology Vol. 27, No. 1, pp 171-178, (1993)		
		"Organic wastewater treatment by activated sludge process using integrated type membrane separation", by FUTAMURA et al. Proceedings IDA and WRPC World Conference on Desalination and Water Treatment, November 1993, Vol. 1, pp 223-230		
		"Integrated membrane-filtration activated-sludge wastewater treatment system", by ONISHI and FUTAMURAProceedings 1994 MIE International Forum and Symposium on Global Environment and Friendly energy Technology, pp 365-368		
		"Integrated membrane filtration activated sludge wastewater treatment system", International Symposium on Fibre Science and Technology (ISF'94), Yokohama, October, 1994		
		ZeeWeed 145 Product Data Sheet, June 1994.		

Examiner Signature		Date Considered
--------------------	--	-----------------

¹EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

² Unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.